

Laborers Landscape & Irrigation Fitter Landscape 1: Planting & Maintenance Syllabus

Time: 40 hours

Maximum Class Size: 12

Prerequisites: None

Course Description: This is a comprehensive introductory course that covers safety as well as basic landscape skills. It addresses OSHA and Cal/OSHA standards regarding the use of herbicides, pesticides, insecticides and fertilizers. It also addresses the proper storage, handling, application, and disposal of these substances. SDS are introduced. Dig Alert is presented. Identification of basic tools and material used for the scope of work are presented. Proper Plant care as nursery stock on the jobsite; including grouping by size, variety, ease of maintenance, necessity and acclimation is covered. Other topics are the proper mixing of soil amenities, soil preparation and planting techniques for trees, shrubs, transplants, ground cover, flowers, sod, seed and hydro-seeding. Basic plant identification, both common and botanical names, is introduced. Students are given ample hands-on practice in interpreting MSDS, mixing soil amenities, preparing the site for planting, planting a variety of plants, installation of sod and plant maintenance.

Goals/Objectives/Student Learning Outcomes:

- Interpret a SDS (MSDS).
- Describe safe methods of applying toxic substances.
- Explain the one call “Dig Alert” system.
- Identify Hand and Power Tools associated with scope of work.
- Describe the proper and care of a variety of plants.
- Identify soil types.
- Describe and calculate mixing ratios for soil and amenities.
- Describe the importance of Nitrogen, Phosphorus, and Potassium in soil.
- Demonstrate proper planting techniques for trees, shrubs, ground cover, and flowers.
- Demonstrate correct method of prepping site for sod.
- Demonstrate correct method of laying sod.
- Describe correct method of planting grass seed.
- Define “Hydro-seeding” and explain its purpose.
- Complete a hands-on performance evaluation with a score of 80% or above.
- Complete a written Exit Exam with a score of 80% or above.

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Standards

- OSHA 29 CFR Part 1910.1200 (h): Pesticides, Herbicides, Insecticides, Fertilizers-Information & Training
- OSHA 29 CFR Part 1910.1200 (f): Pesticides, Herbicides, Insecticides, and Fertilizers-Labels & Warnings
- OSHA 29 CFR Part 1910.1200 (g) Pesticides, Herbicides, Insecticides, Fertilizers- Safety Data Sheets
- OSHA 29 CFR Part 1926.300: Hand & Power Tools

Classroom Rules and Procedures

- All classes begin at 6:30 am and end at 3:00 pm
- Upon entering classroom, all participants must sign in and be seated by 6:30 am
- Class will consist of a combination of lecture, video, demonstration, coached group exercises, individual exercises and assessment.
- Students are required to report to class ready to work and maintain the provided PPE

Textbooks/Readings/Materials

- LIUNA: PPE PG
- LIUNA: Utility Locating Program PG
- LIUNA: Hand Tools PG
- Safety Data Sheets (toxic substances)
- White Marking Paint (Dig Alert Lay Out)
- LLIF Landscape 1 PowerPoint
- Handouts: *SDS (3), Safe Application of Pesticides and Herbicides, Hazard, risk, human health & pesticides, WSSA, Identifying Different Types of Soil, Soils: Advanced, Soil Types and Testing, the Importance of Proper PH Balance, Bluegrass Garden, Plant Nutrition, Plant Nutrients, Effects of Root Barriers on Tree and Root Growth, Century Root Barrier, Fertilizer, US Dept. of Labor Landscape and Horticultural Standards, Tree Staking, Concrete Header and Shrub Planting Diagrams.*

Tools/Equipment/Other Materials

- Planter Mix & Fertilizer
- Shrubs
- Trees
- Ground Cover
- Flowers

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- Sod
- Grass seed
- Slow release fertilizer tablets
- Plastic root barriers
- Hand Tools for scope of work

Personal Protective Equipment

- 12 pairs of gloves
- 12 pairs of Safety Glasses
- 20 pairs of Ear plugs
- 12 hard hats

Course Requirements

To receive credit for the course, participants must:

- Be present for full forty hours
- Participate in all classroom exercises
- Pass a written exam
- Pass a hands-on exam

Course Policies

- Participants must be on-time and ready to work.
- Participants must return from breaks on-time.
- Participants must participate in each exercise and assignment
- Participants who are on “light duty” are not allowed to take this course due to the physically demanding requirements.

Assessment and Grading

Participants will be assessed on the following:

- All written exams must be passed with a score of 80% or above.
- All hands-on exercises are graded on performance and participation. They are pass/fail and must be passed with a score of 80% or above.

Laborers Training School

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Safety

Failure to maintain and use PPE may result in dismissal from the course.